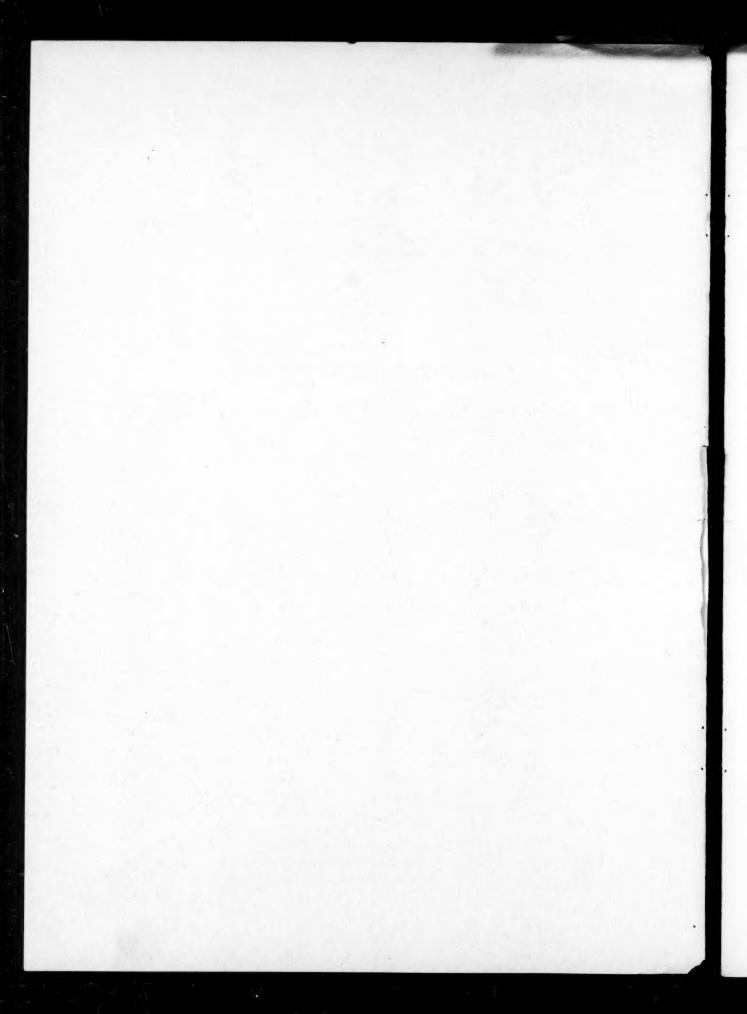
MACHINERY

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September 1952—August 1953

1953
THE INDUSTRIAL PRESS
148 Lafayette Street
New York 13, N.Y.



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Driving Pulley for Small Single-speed Motor, Two-speed	Aug.	226	Building and Electricity, Model of an Atomic Plant	Oct.	163	E-rings, Dispenser Designed to Speed up Assembly of Truarc	May	250
Driving Threaded Inserts in Aircraft			for Producing	July	223	Errington Mechanical Laboratory, Inc.:		
Parts, Tool for			Electrification Forum, Westinghouse Machine Tool	Marr	200	Universal-joint Drilling Head Erwin, Carl L., Personal of	Nov.	233
Drop-hammer, Erie Giant Steam			Electro Arc Mfg. Co.:		500	Essex Punch Shaper for Rapid Machin-		
Drums Coated and Lithographed Before			Broken Tap and Drill Remover	Nov.	215	ing of Blanking Punches in One Set-up	Apr.	216
Turning, Rheem Steel. Gilbert C.	Apr.	182	Electrocleaning Material for Zinc-base Die-castings	Jan.	179	Etching of Aluminum, Composition De- veloped for Improved	Dec.	195
DuCharme O.L.:			Electro-deposited Nickel, Properties of	Dec.		"Etco" Carbide Indicator Points	Dec.	234
Manufacturing 90-MM Shells Du Chemin, N. M.:	Mar.	143	Electrode, G-E Hard-surfacing Weld- ing	July	246	Etteo Tool Co., Inc.: Lead-screw Multiple-head Tapping	June	208
Machine Tool Building and Electrical			Electrode-holder "Cool tong"	Mar.	222	Evans, Aaron, Personal of	Dec.	253
and deads			10					

Evans, Charles H., Personal of			Fidelity Products Corporation:			Forum, Westinghouse Machine Tool		-
Evans, Charles P., Personal of Evans, Howard J., Personal of	Sept	248	Permanent or Strippable Coating Pro- vided by a Hot-Melt Plastic	June	201	Foster Mfg. Co., Inc.:	May	268
Evans Products Co.:			Fieneman, William G., Personal of	Mar.	238	Quick-detachable Coupler for Pneu-		
Mobile Gage Testing Laboratory	Feb.	260	File Developed for Precision Work	Feb.	237	matic and Hydraulic Tools		
Ex-Cell-O Corporation: Precision Contouring Machine	Dec.	223	File Kit Containing Assortment of Shapes for Power Die Filing	Feb.	223	Foster, Trufant, Personal of	MAI	
Precision Tool Grinding Machine	Jan.		Fillets for Use in Patternmaking, Plas-			Hammer, Unique		
Exhibition, Unusual Machines Displayed at the Hanover		206	Films Applied with Brush, Solid Lubri-	Jan.	179	Fraser, Hugh J., Obituary of		
"Expamet Expanded Aluminum" Mesh	1404.	200	cant	Mar.	191	Fraser, O. B. J., Personal of		
for Various Applications	May	189	Films, see also Motion Pictures			Frauenthal Division, Kaydon Engineer-		
Expanded-aluminum Mesh for Various Applications	May	189	Filsinger, Jr., R. H., Personal of Filter, Dollinger Small Pipe	Nov.	256	ing Corporation: Machines Built to Grind Bearings		
Experimental Design to Production De-	may	100	Filter for Hydraulic Systems			for Patton Tanks	Dec.	. 214
sign, from. Earle Buckingham	June	172	Filter Material with High Tensile			Free Enterprise Results in Higher Stan-		
Expert Welding Machine Co.: Indexing Machine Automatically Welds			Strength, Stainless-steel Filter Unit, Portable Hydraulic	Aug.	191	dard of Living. Charles O. Herb Freeman, Alexander B., Personal of		
Tubular Assembly		. 162	Finder, Battery-operated Center			Freeman, E. C., Personal of		
Extension Indicator for Tension-loaded			Finishing Manifold Pads on Six-cylinder			Frey, Frank T., Personal of	Sept.	. 250
Specimens Extractor, Bushing and Bearing			Engines, Cross Machine for Fischer, George J., Personal of			Frisbie, Jr., Robert T Frustum of a Cone, Method for Develop-		261
Extractors, Screw	Jan.	238	Pischer, George 3., Personal or		240	ing the		202
Extruding Artillery Shells, Presses for	Dan	999	Fisher Body Division, General Motors			Fuel, Control of Jet-engine		
Cold Extrusion Press, Watson-Stillman Alu-	Dec.	222	Corporation: Conveyor for handling 250 Tons of			Fujita, Akitaka, Personal of Fumes Plant Creating a Public Nuis-	Jan.	24
minum	June	218	Scrap per Day	May	190	ance	Feb.	201
Extrusions Effect Design and Production	1		Fisher Line of Lathe Work-drivers	May	239	Fuqua, Landon C., Personal of		
Economies, Tapered "Eze-Tru" Diamond Wheels			Fitting, One-piece Grease	Sept.	229	Furnace, Electric Casting	Feb.	. 214
are its panions wheels			Fixture, see Milling, Bending, Drilling, etc.			Between Drawing Operations	Oct.	23
			Fixture that Maintains Center Distance			Furnace for Hardening Small Parts,	Yes	4.00
			in Boring, Two-position Faceplate	Sept.	203	Controlled-Atmosphere Furnace for Heating Jet-engine Forg-	Jan.	128
F			Fixture with a Sliding Locator, Slot- milling	Jan.	205	ings, Electric	July	245
		955	Fixtures for High-production Operations			Furnace for High-speed Tool Steel,	Man	
Fabel, Clarence W., Personal of Fabricator, Wales Sheet-metal			on Multiple-spindle Drill Press	Oct.	223	Furnace, Ipsen Automatic Controlled-	MOA.	22
Faces for Vise Jaws, Special			Pixtures Increase Tank Transmission Production, New Grinding. Jerry B.			atmosphere Draw-quench	Mar.	. 216
Facing, Hard, see Hard-			Doll	Jan.	190	Furnace, Lithium Hot-atmosphere Sys-	D	
Facing Tool, Carbide Turning and Facing Tools, Precision Boring and			Flagler Corporation:			tem for	Dec.	221
Factory Tools Inc.:	Jan.	200	High-speed Lock Rolling Machines for Sheet-metal Work	Aug.	229	scraper Heat-treating	Jan.	190
Portable Coolant System	Sept.	238	Flame-cutting Equipment, Three-dimen-			Furnace, Westinghouse Draw Tempering		
Fairbairn, Gordon A.:	Tellar	189	sional			Furnace, Westinghouse Heat-treating Furnace with Wide Temperature Range	Apr. Sept.	236
Working Titanium at North American Fairfield Gauge Co., Inc.:	July	102	Flame-cutting Machine, Cogmatic Flame-plating with Tungsten Carbide—	Pen.	212	Fusion Engineering:	Sept.	
"Micro-height" Gauge			A New Process	Oct.	227	Fast-acting Soldering Flux Contains		
Fales, Frank J., Personal of			Flanders, Ralph E.:			Tinning Agents "Puturblade" Carbide Turning and Fac-	Mar.	. 191
Farley, Jr., Ernst W., Personal of Farm Implement Business, Machine	may	204	Machine Tools and All of Us "Flash" Lathe Speeds Secondary Opera-	Oct.	199	ing Tool	Sept.	. 226
Tools Helped to Develop the			tions	Nov.	222	"Futurmill" Staggered-tooth Carbide		
Farnham. George, Personal of	Oct.	268	Flash Trimmer, Morton Rolling Mill			Blade Milling Cutter	Oct.	254
Sandwich Type Structures	Sept.	229	Flattening and Tempering Furnace	Feb.	218			
Fassett, John H., Personal of	Mar.	240	Flaws by Underwater Testing, Douglas Detects	Oct	212	G		
Fastening Sandwich Type Structures, "Fasco Spacer" for Use in	Sent	228	"Flexi-Speed" Drive	May	250	Gabriel, Thomas, W., Personal of	Aug.	262
Fatigue-testing Machines, Losenhausen	July	244	Floor-plates, Challenge Adjustable	June	233	Gade, George A., Personal of		
Fauver Co., Inc., J. N.:		200	Flow Control Valve, Hydravitc Multi- Range	Apr.	230	Gage Atomic Gun Barrel, Micromatic		
Portable Hydraulic Filter Unit "Faxfilm" Surface Comparator			Flux Contains Tinning Agents, Fast-			Tool Designed to Hone and	Aug.	229
Fearless Tool Co.:			acting Soldering	Mar.	191	Gage-block System, DoAll "Micro-Step" Gage-blocks, A Precise Angular Stan-	Dec.	216
Portable Bench Centers	June	242	Flux for High-temperature Brazing and Hard Soldering	May	189	dard Made from	Aug.	200
Federal Machine & Welder Co.: Combination Forming and Welding			Flux for Use in Silver Brazing Opera-			Gage-blocks Made of "Chromium Car-	-	
Machine	Jan.	221	Fly Cutter, Universal	Apr.	189	bide" DoAll	Oct.	247
Federal Products Corporation:			Follower Roller, Cam	Mar.	232	Gage-blocks to "Millionths", Producing	Feb.	147
Comment on Comparator Gage for In- ternal Measurements	Dec	173	Ford Instrument Co.:			Gage, Bryant Groove	July	244
Gage for Checking Diameters of Auto-	Dec.	110	Instrument Makers Turn Talents to Helicopter Transmissions	2600	107	ments, Height	Nov.	226
motive and Aircraft Pistons	Jan.	216	Ford Motor Co.:	Mar.	101	Gage Controls Rolling Mill Equipment,		
Horizontal Master Comparator for Checking Inside and Outside Dimen-			Improved Methods of Manufacturing			Gage Demonstrated for Checking 90-mil-		187
sions	Mar.	221	Connecting-Rods	Sept.	151	Gage Demonstrated for Checking 90-mil- limeter Ammunition	Dec.	186
Feed Arrangement for Coil-winding			Machining Techniques in a New Trac-	mar,	100	Gage, Fairfield Height	July	254
Machine, Sensitive. Paul Grodzinski Feed Designed to "Feel" its Way	Apr.	201	tor Engine Plant	June	163	Gage for Accurate Checking of Tapers, Useful Shop. W. M. Halliday		
Through Work, Drill Press	Sept.	220	Forge Casting Machine, Lewis Die		212	Gage for Checking Diameters of Auto-	NOV.	a)3
Feed for Hand Miller, Mead Rotary Air	June	220	Forging Huge Compressor Discs for New			motive and Aircraft Pistons	Jan.	216
Feed Press, Hamilton Strip Feed Tables, Allen Improved Dial			Wind Tunnel	Oct.	210	Gage for Checking Large Diameters,		
Feeds for Bottle Caps, Designing Hop-	,		Techniques. Gordon S. Tracy	June	202	Dial Indicator	Feb.	233
per. Joseph and Vincent Waitkus.	Yes	170	Forgings Joined by Welding, Tractor,			Gage for Inspecting Drill Points, "Point-		
3		176	Stephan Chmielewski	sept.	190	Chek"	Nov.	238
4	Mar.	201	Coils and Fins. Ralph Wagner	Aug.	192	ment on Comparator	Dec.	173
5	Apr.	192	Forming and Welding Machine, Combina-			Gage for Internal Measurements, Com-		
Feeder, Punch PressFeeding Mechanism "Jamproof". Haim	NOV.	233	Forming, Impacting—An Important New	Jan.	221	Gage for Jet Blades Taft-Deiros Air	Sept.	204
Murro	Jan.	199	Method of Metal	Dec.	193	Gage for Jet Blades, Taft-Peirce Air Gage for Small Diameters, Groove	May	250
Feeding Shells Closed End First, Sort-			Forming Machines for Thermoplastic			Gage, Reducing Regulating Valve and		
ing and. W. M. Halliday Feeler Gages, Williams Expanded Line	June	206	Sheets, Vacuum	June	221	Pressure	Nov.	228
of	Feb.	237	draulic Press, Cold Ralph Wagner	Nov.	195	Gage, Sheffield Precisionaire Piston Gage, Standard Machine and Wood Screw	Nov.	258
Fendall Co.:			Forming Rolls, Wysong All-steel Cylin-			Gage, Starret Vernier Height	Oct.	247
"Pow-R-Safe" for Safety Testing Elec-	Ann	236	forming Techniques Improved to Meet	June	225	Gage, Taft-Peirce Computing Air	Apr.	230
tric Tools and Cords Fenlind Engineering Co.:	Apr.	200	Present-day Demands, Stretch-	Oct.	216	Gage Testing Laboratory, Mobile Gage, Thread, see Thread	Feb.	260
Abrasive-belt Grinder for Sharpening			Formsprag Co.:			Gages, Dial Bore	Apr.	229
Carbide Tools	Jan.	228	High-speed Over-running Clutches Forney's Inc.:	June	235	Gages for Inspecting Diameter of Under-		
Fenway Machine Sales Co., Inc.: Heavy-duty Portable Nibbler	Nov.	236	Profile Milling and Boring Machine	June	219	cut Bores, Various	sept,	176
Paul M. T. Dansonni of	Tule	280	Forth, Edward W., Personal of	Aug.	262	P&W Air-O-Limit	Tan	227
Fey, M. J., Personal of	July			arab.			dent's	

Gages, Taft-Peirce "Electrolized" Stan- dard and Special	Tulv	253	Engine-driven Arc Welder			Grease with High Resistance to Break- down, Multiple-Purpose Lithium	Pah	199	
Gages, Vinco Indicator Snap	Sept.	226	High-slip Motor Demonstrating Effectiveness of Safety	Jan.	220	Greenawald, Paul B., Obituary of	Oct.	276	
Gages, Williams Expanded Line of Feel-			Glasses			Greenerd Arbor Press Co.:			
Coolea Broades by Ortical Broadestics	Feb,	237	Redesigned Welding Transformer	Mar.	217	Hydraulic Press	July	233	
Gaging Broaches by Optical Projection Gaging Device Developed for Wide Range		212	Press Dies Cast from Plaster Forms Simplified "Thy-mo-trol" Drive			Greeniee Brothers & Co.: Transfer Machine for Vee Type Engine			
of Applications, Pratt & Whitney	Mar.	219	Alternating-Current Welder			Blocks	Nov.	221	
Gaging Machine for Small-caliber Ammu			"Bouncing Putty" for Welding Steel		-	Greensward, J. D., Personal of	Nov.	256	
nition, Automatic	Aug.	223	Plate and Pipe	May	206	Greenwood, Walter F., Personal of Grieve-Hendry Co., Inc.:	May	262	
Gaging, Theory of Mechanical, Electri-			Electrode	June	200	Portable Oven with Inconel Tubular			
cal, Electronic, and Air	Feb.	172	Hard-surfacing Welding Electrode	July	246	Heater	Sept,	238	
Gagnon, Louis V., Personal of	Sept.	248	Maintaining Constant Surface Cutting			Portable Heating Oven	Mar.	228	
Galvanite Corporation: Cold Galvanizing Process for Surface			Speed	Aug.	160	Grinder, Alden Twist Drill	June	242	
Protection	Jan.	179	with "Erector Set"	Aug.	197	Grinder, Crush-dresser Developed for	July	258	
Galvanizing Process for Surface Protec-			Electronic Relay	Aug.	230	"Diversimatic" Centerless	Oct.	237	
tion, Cold	Jan.	179	General Motors Corporation:			Grinder Designed for Precision Surfac-			
Gar Wood Industries: Automatic Arc-welding of Winch and			Manufacturing Abundance Dipping Process for Coating Perrous	Oct.	154	ing	Feb.	224	
Hoist Parts	Oct.	196	Metals with Aluminum	Jan.	179	Grinder Dog, Red-E Cutter	July	200	
Gardner, Jr., Warren S., Personal of	Feb.	244	General Plate Division of the Metals			Prosser Carbide Tool	May	230	
Gardner Machine Co.:			& Controls Corporation:			Grinder, Gearless Angle	July	256	
Double-spindle Machines Equipped for Grinding Turbine Blades and Axle			Copper-Clad Hardenable Steel for		100	Grinder for Sharpening Carbide Tools,	Ton	220	
Housings	Jan.	212	Highly Conductive Spring Parts Thin-gage Cobalt-base Alloy Sheet	Apr.	100	Abrasive Belt	Jan.	240	
Special Purpose Grinding Machine	Feb.	213	Made in Wide Hardness Range	May	188	Routing Cutters	Mar.	220	
Gardner, Wilbur, Personal of	Oct.	274	General Roto Co.:			Grinder, Improved Bench	Oct.		
Garlock Packing Co.: Lubrication of Anti-friction Bear-			"Roto Head" Multiple-Tool Lathe At-	Wah	991	Grinder, Multiple-head Tungsten-carbide		994	
ings	Sept.	160	Geneva Mechanism, Half-revolution.	Peb.	221	Grinder, Prosser Precision Tool	June	230	
Mechanical Seal for Pump Shafts	July	254	Haim Murro	June	193	Grinder, South Bend Pedestal Tool	Feb.	217	
Teflon Back-up Rings for O-ring			Gerbing Mfg. Corporation:			Grinding Accuracy Depends on Correct			
Seals	Aug.	240	Variable-speed Pulley			Dressing of Abrasive Wheel, Gear-	Yes	140	
Ultrasonic Inspection Insures Depend-			Gergen, Russel L., Personal of Gewin, Sam E., Personal of			Grinding & Polishing Machinery Cor-	Jan.	100	
able Jet-engine Parts	July	194	Giddings & Lewis Machine Tool Co.:			poration:			
Gates and Risers from Castings, Mach-			Underarm Support Aids Milling and			Machine for Deburring Ring Sec-	_		
Gayne Associates, Inc., Arnold C.:	Nov.	223	Boring of Large Work			tions of Jet Engines	June	231	
"Micro Pin" Tool Setter	Feb.	220	Giere, John E., Personal of	Dec.	200	Grinding and Sharpening Teeth of Mil- ling Cutters, "Wesgan" Fixture for	Apr.	238	
Gear and Clutch Mechanism for Vari-			Producing Gage-blocks to "Millionths"	Feb.	147	Grinding Attachment "Circularity"	Mar.	232	
able Operating Conditions	Feb.	200	"Gildematik" Drum Type Turret Lathe			Grinding Attachment for Landis Chasers			
Gear Finisher for Spur and Helical Gears, Rotary Internal	Tan	990	with Pre-selector and Electric-hydrau		224	Grinding, Centerless, see Centerless	Bank	-	
Gear-grinder Wheel, Worm-face Pro-	Junii.	****	Gilliland, G. W., Personal of			Grinding Fixture, Cutter			
fue	Sept.	224	Gilmartin, John R., Personal of			Grinding Fixture for Bevel Gears, Bore- Grinding Fixture for Holding Work at	Jan.	203	
Gear Grinding Machine, Sheffield High-	Ø		Gilron Products Co.:			Any Angle	Mar.	. 194	
Gear Hob Use and Maintenance, Poin-	sept.	212	Machine for Applying "Drawcote" Lu- bricant to Sheets and Blanks		914	Grinding Fixture for Redressing Tools,			
ters on	Feb.	163	Dry Lubricant Developed for Metal-	mar.	91.4	Radius	Aug.	227	
Gear-hobbing Machines, Complete Line			Forming Operations	Apr.	189	Grinding Fixtures Increase Tank Trans- mission Production. Jerry B. Doll	Ton	190	
of	Mar.	211	Ginsberg, Charles W., Personal of	Aug.	258	Grinding Gas-turbine Blades and Buck-	Jan,	100	
Gear Segments, Simple Method of Shav- ing	Feb	191	Gisholt Machine Co.:			ets, Abrasive-belt Form-generating			
Gear-shaving Machine Equipped with	200.		Superfinishing of Mill Rolls Lengthens			Machine for	May	232	
Automatic Precision Up Feed,			Their Life	Mar.	192	Grinding, Hydraulic Boring, and Milling Machines, Vard	Man	995	
Diagonal			matically During Balancing	June	188	Grinding Machine, Automatic Face	Sept.	222	
Gear-shaving Machine, Giant Gear-shaving Machines for Pinishing	July	231	Gits Bros. Mig. Co.:			Grinding Machine, Besly-Bowen Radial			
Large Gears	May	217	Vacuum Tester	Oct.	243	Head Face			
Gear Tester for Small Precision Gears			Glass Fibers, Inc.: Compressible Shock-absorbing Glass			Grinding Machine, Bridgeport Surface Grinding Machine, Bullard Vertical	July	247	
Gear Tooth Crowning, Shaving Machine	Yester	0.40	Material for Machine Mountings	June	201	Chucking	Feb.	211	
Equipped for	July	240	Glass Material for Machine Mountings,			Grinding Machine, "Cleveland" Hydrau-			
on Correct Dressing of Abrasive			Compressible Shock-absorbing	June	201	lic Knife	June	229	
Wheel. Charles H. Wick	Jan.	168	Glasses, Demonstrating Effectiveness	Pak	20.2	Grinding Machine, "Diversimatic" Cen-	Tuna	222	
Gear Tooth Locators, Calculating Dimen			of Safety	reb,	202	Grinding Machine, DoAli Precision			
Gears and Gearing, see also Bevel,	sept.	140	Rolling Quench Machine Developed to			Grinding Machine, DoAll Precision Tool-			
Helical, Spiral, Spur, Worm, etc.			Minimize Distortion	Dec.	210	room Surface	May	234	
Gears, Bench Fixture for Checking In-			Globe Division, Hupp Corporation:			Grinding Machine, Dynatomic Carbide- tool	Apr.	221	
ternal			Flask Type Motor-driven Tumbling Barrel	Dec.	213		Apr.	***	
Gears, Bench Type Fixture for Checking Gears, Burr-Master for High-speed	Feb.	220	Glogau & Co.:			Grinding Machine, Ex-Cell-O Precision Tool	Jan	210	
Chamfering and Deburring Flywheel			Large-size Vernier Calipers	Apr.	238	Grinding Machine for Large-Diameter	Jan.	-10	
Ring	Apr.	218	Goetz, Karl, Personal of	May	254	Work, Landis Plain	Nov.	215	
Gears, Hobbing Accurate. Stuart J.			Gollither, Frank E., Personal of	Mar.	238	Grinding Machine for Production Grind-			
Johnson and Peter R. Noling						ing of Small Parts	Feb.	216	
Gears per Hour, Producing 125	Mar.	160	Goodrich Co., B.F.: Huge Expenditures Forecast for Im-			tour Small-diameter Work, Center-			
Gearing, Extreme Pressure Lubricant			proved Equipment	Apr.	260	less	Feb.	225	
Used for Industrial			Goodrich, William, Personal of	May	262	Grinding Machine, Gardner Special Pur-	w.L		
Gear-motor, G-E Three-piece	Oct.	203	Goodwin, Jr., P. E. W., Personal of Gordon, Frank H., Obituary of	June	254	Grinding Machine, Hydraulic Cylindrical	Dec.	213	
reduction	Dec.	234	Gordon, Frank H., Oblidary of	mar.	070	Grinding Machine, Landis Automatic			
Geenens, Joseph L., Personal of	May	259	Tracer-controlled Machine for En-			Concentric	Dec.	220	
Gelber Co., Samuel S.:	Web	994	graving Heat-treated Rolls			Grinding Machine, Landis Semi-automa-	0.1	222	
Bantam Coolant Tank and Pump Unit General American Transportation Cor-	Feb.	231	Gottschling, Jr., F. W., Personal of Govro-Nelson Co.:	Dec.	253	tic Turbo-jet Blade Hydraulic	Apr.	215	
poration:			Special Machine for Drilling Seven			Grinding Machine, Norton Heavy-duty	- der	2.0	
New Nickel-plating Process Uses		011	Holes Simultaneously	Oct.	245	Cylindrical	Oct.	234	
No Electrolytic Equipment	Apr.	209	High-speed Disc Drilling and Debur-			Grinding Machine, Norton Plain or Semi-	Yes	900	
General Electric Co.: Hardening Costs Cut 48 Per Cent with			Grants George M. Personal of			automatic Cylindrical	Jan.	222	
Induction Heaters	Sept.	166	Graetz, George M., Personal of	Apr.	235	ic Piston-	July	236	
Machine-tool Building and Electrical	-		Graphic Illustrations Supersede Blue-			Grinding Machine, Precision Surface	Feb.	210	
Manufacturing—Partners for Great-	-	140	prints in Production Lines	Feb.	189	Grinding Machine, Reinecker Universal	A	224	
Three-piece Gear-motor			"Graph-Mo-Hollow-Bar" Tool Steel Gray, James E., Personal of	Sept.	260	Tool and cutter	Apr.	444	
Midget Type X-ray Machine			Graymilis Corporation:			precision	Sept.	212	
"Cond-Al" Aluminum Alloy for Field			Small Gear Pumps	Apr.	212	Grinding Machine, Sheffield Small Size			
Windings	Dec.	132	Grease Fitting, One-piece	Sept,	229	Precision Thread	an.	410	
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Grinding Machine, Springfield Dual-	**		Useful Shop Gage for Accurate Check-	97	-	Heat-treating Jet-engine Components	Feb.	169
spindle Vertical	Nov.	213	V-Blocks Feature Low Head-room	Nov.	203	Heat-treating Laboratory in Rockford, New	Oct.	214
Cutter	Jan.	224	Clamping	Dec.	208	Heat-treating, see also Hardening		
Grinding Machine with Abrasive Roll for Finishing Sheets	Jan.	229	Lathe Chuck Useful in Holding Non- cylindrical Round Work	Mar.	192	Heat-treating Unit with Forced Con- vection Heating, Ipsen	Jan.	223
Grinding Machine with Automatic Table			Roller and Disc Type Ratchet Mechan-			Heated Rapidly with 60-cycle Current,		
Drive, Hanchett Precision Knife Grinding Machine with Hydraulic Fluid	мау	220	Gear and Clutch Mechanism for Vari-	Mar.	120	Aluminum Ingots	June	213
Motor Drive for High-speed Table	Cont	917	able Operating Conditions	Feb.	201	Obtain Tighter Fits, Portable Electric	Jan.	240
Grinding Machines, Dual-head Auto-	Sept.	217	Adjustable-stroke Driving Mechanism for Reciprocating Slide	Apr.	198	Heating, Induction, Electronic, see In- duction, Electronic		
matic Cycle	July	241	Plate Jigs Locate Drilling Operations			"Hefti-Cut" Turning Tool Designed for		
Grinding of Carbide Tools with Electro- lytically Assisted Diamond Wheels	Apr.	191	from Hole in Work Finger Clamp for Gripping Non-	Apr.	202	Hein-Werner Corporation:	sept,	224
Grinding of Worm Threads, Form	Dec.		parallel Surfaces		203	Hydraulic Jack	Nov.	238
Grinding Patton Tank Bearings, Frauen- thal Machines for		214	Sorting and Feeding Shells Closed End First	June	205	"Heliarc" Torch, Linde	Jan.	230
Grinding Turbine Blades and Axle Hous-			Adjustable Taper Boring Attachment	July	225	Makers Turn Talents to	Mar.	. 167
ings, Gardner Double-spindle Machines Equipped for		212	Hallowell, Jr., H. Thomas, Personal of Haloid Co.:	Mar.	246	Helistrom, John, Personal of		
Grinding Valve Push-rods for Buick En-			Improved Equipment for Reproducing	_		Helmet with Plastic Headband, Arc-		
gines, Coid-heading and. Herbert Chase	Aug.	186	Drawings	Jan.	255	Welding	July	204
Grinding Wheel Obtained from High-			Hamilton Tool Co.:			Weider's		
speed Drive, Slow Reciprocation of Grinding Wheel, see Wheel	Dec.	204	"Portelvator" for Raising and Lower- ing Heavy Loads	Apr.	222	Helmets, All-plastic Welding Helphenstine, C. O., Personal of		
Grinding Wheels, Truing and Dressing	May	213	Hammer, Drop-, see Drop-			Hendrick Mig. Corporation:		
Grinding with Flat Cup-wheel, Work- tilting Device Permits Radius. Leif			Hammer, Unique Foundation Isolates Vibrations of Steam	Feb.	260	Long-railed Saw for Cutting Wide Metal and Plastic Sheets	Feb.	216
Weywadt	Nov.	201	Hammond Machinery Builders, Inc.:		-	Henning, Jr., Fred, Personal of	Oct.	266
Griswold Mfg. Co., F. T.: Optical Level for Precision Measuring			Variable-speed Polishing Lathe with Back-stands, Guards, and Dust			Henry & Wright, Division of Emhart Mfg Co.:		
of Straightness, Flatness, and Paral-			Collectors	Oct,	248	High-speed Automatic Dieing		
"Point-Check" for Inspecting Drill	Sept.	228	Variable-speed Polishing and Buffing Lathe	Apr.	225	Machine Henry, William E., Personal of	Mar.	204
Points		238	Hanchett Mfg. Co.:			Herb, Charles O.:		
Optical Dividing Head with Large Face- plate		216	Precision Knife Grinder with Auto- matic Table Drive	May	220	Apprentices Safeguard the Future of Industry	Sent	149
"Gritcloth" Open-mesh Sanding Cloth			HANDBOOK Reaches the Million Mark,			Master Tools of Progress and Protec-		
Eliminates Clogging Grodzinski, Paul:	Nov.	225	MACHINERY'S			Regardless of Election Results	Oct.	151
Transmitting Uniform Speed Between			Handling Equipment Speeds Production		-	Nation-wide Acciamation of the		
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Karr, Henry, Personal of Kashman, Henry, Personal of Kasper, L.: Increasing the Movement of an Oscillating Shaft Chain-driven Intermittent Rotary Movement Fixed Stroke Converted into Variable Stroke Modified Eccentric Provides Adjust-	Apr. June Oct. Dec. Mar.	250 254 221 203 197	L & S Industries: Fluid Drive Coupling for Small Motors Labelon Tape Co., Inc.: Adhesive Tape with Drafting Symbols Labor Must Solve Difficulties, Industry and. Charles O. Herb Laflin, Donald M.: Underarm Support Aids Milling and Boring of Large Work	Feb. Jan. Nov.	225 149 156	Lead Checker for Large Helical Gears, Michigan "Sine-Line" Lead Measuring Instrument, Universal Thread Leader Pins and Bushings in Die Sets, Assembling, Jose Sobkowiak Leader Welding Mig. Co.: Automatic Welding Machine	Dec. Apr. Mar. Nov.	210 208 204 242
Karr, Henry, Personal of Kashman, Henry, Personal of Kasper, L.: Increasing the Movement of an Oscillating Shaft Chain-driven Intermittent Rotary Movement Fixed Stroke Converted into Variable Stroke Modified Eccentric Provides Adjustable Die Stroke	Apr. June Oct. Dec. Mar.	250 254 221 203 197	L & S Industries: Fluid Drive Coupling for Small Motors Labelon Tape Co., Inc.: Adhesive Tape with Drafting Symbols Labor Must Solve Difficulties, Industry and. Charles O. Herb	Feb. Jan. Nov. July	225 149 156 280	Lead Checker for Large Helical Gears, Michigan "Sine-Line" Lead Measuring Instrument, Universal Thread Leader Pins and Bushings in Die Sets, Assembling, Jose Sobkowiak Leader Welding & Mfg. Co.: Automatic Welding Machine "Lead-Matic" Tapping Attachment	Dec. Apr. Mar. Nov.	210 208 204 242
Karr, Henry, Personal of Kashmen, Henry, Personal of Kasper, L.: Increasing the Movement of an Oscillating Shaft Chain-driven Intermittent Rotary Movement Fixed Stroke Converted into Variable Stroke Modified Eccentric Provides Adjustable Die Stroke Linear Movement Reduced by Differ-	Apr. June Oct. Dec. Mar. Apr.	250 254 221 203 197 206	L & S Industries: Fluid Drive Coupling for Small Motors Labelon Tape Co., Inc.: Adhesive Tape with Drafting Symbols Labor Must Solve Difficulties, Industry and. Charles O. Herb	Feb. Jan. Nov. July	225 149 156 280	Lead Checker for Large Helical Gears, Michigan "Sine-Line"	Dec. Apr. Mar. Nov. July July	210 208 204 242 243
Karr, Henry, Personal of Kashman, Henry, Personal of Kasper, L.: Increasing the Movement of an Oscillating Shaft Chain-driven Intermittent Rotary Movement Fixed Stroke Converted into Variable Stroke Modified Eccentric Provides Adjustable Die Stroke Linear Movement Reduced by Differential Chain Drive Mechanism	Apr. June Oct. Dec. Mar. Apr.	250 254 221 203 197 206 207	L & S Industries: Fluid Drive Coupling for Small Motors Labelon Tape Co., Inc.: Adhesive Tape with Drafting Symbols Labor Must Solve Difficulties, Industry and. Charles O. Herb	Feb. Jan. Nov. July June	225 149 156 280 266	Lead Checker for Large Helical Gears, Michigan 'Sine-Line' Lead Measuring Instrument, Universal Thread Leader Pins and Bushings in Die Sets, Assembling, Jose Sobkowiak Leader Welding & Mig. Co.: Automatic Welding Machine "Lead-Matic" Tapping Attachment Lebanon Steel Foundry: Unique Steel Casting Movie	Dec. Apr. Mar. Nov. July July	210 208 204 242 243
Karr, Henry, Personal of Kashman, Henry, Personal of Kashman, Henry, Personal of Kasper, L.: Increasing the Movement of an Oscillating Shaft Chain-driven Intermittent Rotary Movement Fixed Stroke Converted into Variable Stroke Modified Eccentric Provides Adjustable Die Stroke Linear Movement Reduced by Differential Chain Drive Mechanism Kaufmann, Dwight W., Personal of	Apr. June Oct. Dec. Mar. Apr.	250 254 221 203 197 206 207	L & S Industries: Fluid Drive Coupling for Small Motors Labelon Tape Co., Inc.: Adhesive Tape with Drafting Symbols Labor Must Solve Difficulties, Industry and. Charles O. Herb	Feb. Jan. Nov. July June	225 149 156 280 266	Lead Checker for Large Helical Gears, Michigan "Sine-Line"	Dec. Apr. Mar. Nov. July July	210 208 204 242 243 268
Karr, Henry, Personal of Kashman, Henry, Personal of Kasper, L.: Increasing the Movement of an Oscillating Shaft Chain-driven Intermittent Rotary Movement Fixed Stroke Converted into Variable Stroke Modified Eccentric Provides Adjustable Die Stroke Linear Movement Reduced by Differential Chain Drive Mechanism Kaufmann, Dwight W., Personal of Kearney & Trecker Corporation: Ground Broken for New Plant	Apr. June Oct. Dec. Mar. Apr. May Feb. Dec.	250 254 221 203 197 206 207 252 258	L & S Industries: Pluid Drive Coupling for Small Motors Labelon Tape Co., Inc.: Adhesive Tape with Drafting Symbols Labor Must Solve Difficulties, Industry and. Charles O. Herb Laflin, Donald M.: Underarm Support Aids Milling and Boring of Large Work Laflin, Donald M., Personal of Lahr, Paul H., Personal of Lahr, Paul H., Personal of Lake Erie Engineering Corporation: Billet Splitter for Artillery Shells Presses for Cold Extruding Artill-	Feb. Jan. Nov. July June Nov.	225 149 156 280 266 213	Lead Checker for Large Helical Gears, Michigan 'Sine-Line'	Dec. Apr. Mar. Nov. July July July Jan.	210 208 204 242 243 268 210
Karr, Henry, Personal of Kashman, Henry, Personal of Kasper, L.: Increasing the Movement of an Oscillating Shaft Chain-driven Intermittent Rotary Movement Fixed Stroke Converted into Variable Stroke Modified Eccentric Provides Adjustable Die Stroke Linear Movement Reduced by Differential Chain Drive Mechanism Kaufmann, Dwight W., Personal of Kearney & Trecker Corporation: Ground Broken for New Plant Kearns "Optimetric" Jig Mill	Apr. June Oct. Dec. Mar. Apr. May Feb. Dec.	250 254 221 203 197 206 207 252 258	L & S Industries: Fluid Drive Coupling for Small Motors Labelon Tape Co., Inc.: Adhesive Tape with Drafting Symbols Labor Must Solve Difficulties, Industry and. Charles O. Herb	Feb. Jan. Nov. July June Nov.	225 149 156 280 266 213	Lead Checker for Large Helical Gears, Michigan "Sine-Line" Lead Measuring Instrument, Universal Thread Leader Pins and Bushings in Die Sets, Assembling, Jose Sobkowiak Leader Welding & Mfg. Co.: Automatic Welding Machine "Lead-Matic" Tapping Attachment Lebanon Steel Foundry: Unique Steel Casting Movie LeBlond Machine Tool Co., R. K.: New 40-inch Roll-contouring Lathe LeBlond Kichard K., Obtuary of	Dec. Apr. Mar. Nov. July July July Jan.	210 208 204 242 243 268 210
Karr, Henry, Personal of Kashman, Henry, Personal of Kashman, Henry, Personal of Kasper, L.: Increasing the Movement of an Oscillating Shaft Chain-driven Intermittent Rotary Movement Fixed Stroke Converted into Variable Stroke Modified Eccentric Provides Adjustable Die Stroke Linear Movement Reduced by Differential Chain Drive Mechanism Kaufmaan, Dwight W., Personal of Kearney & Trecker Corporation: Ground Broken for New Plant Kearns "Optimetric" Jig Mill Kearns "Optimetric" Jig Mill Kearns "Optimetric" Jig Mill	Apr. June Oct. Dec. Mar. Apr. May Feb. Dec.	250 254 221 203 197 206 207 252 258	L & S Industries: Fluid Drive Coupling for Small Motors Labelon Tape Co., Inc.: Adhesive Tape with Drafting Symbols Labor Must Solve Difficulties, Industry and. Charles O. Herb. Laflin, Donald M.: Underarm Support Aids Milling and Boring of Large Work Laflin, Donald M., Personal of Lahr, Paul H., Personal of Lake Erie Engineering Corporation: Billet Splitter for Artillery Shells Presses for Cold Extruding Artillery Shells	Feb. Jan. Nov. July June Nov.	225 149 156 280 266 213	Lead Checker for Large Helical Gears, Michigan 'Sine-Line' Lead Measuring Instrument, Universal Thread Leader Pins and Bushings in Die Sets, Assembling, Jose Sobkowiak Leader Welding & Mig. Co.: Automatic Welding Machine "Lead-Matic" Tapping Attachment Lebanon Steel Foundry: Unique Steel Casting Movie LeBlond Machine Tool Co., R. K.: New 40-inch Roll-contouring Lathe LeBlond, Richard K., Obituary of Ledeen Mig. Co.:	Dec. Apr. Mar. Nov. July July July Jan. Apr.	210 208 204 242 243 268 210 260
Karr, Henry, Personal of Kashmen, Henry, Personal of Kasper, L.: Increasing the Movement of an Oscillating Shaft Chain-driven Intermittent Rotary Movement Fixed Stroke Converted into Variable Stroke Modified Eccentric Provides Adjustable Die Stroke Linear Movement Reduced by Differential Chain Drive Mechanism Kaufmann, Dwight W., Personal of Kearney & Trecker Corporation: Ground Broken for New Plant Kearns "Optimetric" Jig Mill Keilte Products, Inc.: Detergent for Cleaning Aluminum and	Apr. June Oct. Dec. Mar. Apr. May Feb. Dec. May	250 254 221 203 197 206 207 252 258 219	L & S Industries: Fluid Drive Coupling for Small Motors Labelon Tape Co., Inc.: Adhesive Tape with Drafting Symbols Labor Must Solve Difficulties, Industry and. Charles O. Herb	Feb. Jan. Nov. July June Nov. Dec.	225 149 156 280 266 213 222	Lead Checker for Large Helical Gears, Michigan 'Sine-Line' Lead Measuring Instrument, Universal Thread Leader Pins and Bushings in Die Sets, Assembling, Jose Sobkowiak Leader Welding & Mfg. Co.: Automatic Welding Machine "Lead-Matic" Tapping Attachment Lebanon Steel Foundry: Unique Steel Casting Movie LeBlond Machine Tool Co., R. K.: New 40-inch Roll-contouring Lathe LeBlond, Richard K., Obituary of Ledeen Mfg. Co.: All-hydraulic Pumps and Power Units	Dec. Apr. Mar. Nov. July July July Jan. Apr. Nov.	210 208 204 242 243 268 210 260 233
Karr, Henry, Personal of Kashman, Henry, Personal of Kashman, Henry, Personal of Kasper, L.: Increasing the Movement of an Oscillating Shaft Chain-driven Intermittent Rotary Movement Fixed Stroke Converted into Variable Stroke Modified Eccentric Provides Adjustable Die Stroke Linear Movement Reduced by Differential Chain Drive Mechanism Kaufmaan, Dwight W., Personal of Kearney & Trecker Corporation: Ground Broken for New Plant Kearns "Optimetric" Jig Mill Kelite Products, Inc.: Detergent for Cleaning Aluminum and Magnesium	Apr. June Oct. Dec. Mar. Apr. May Feb. Dec. May May	250 254 221 203 197 206 207 252 258 219	L & S Industries: Pluid Drive Coupling for Small Motors Labelon Tape Co., Inc.: Adhesive Tape with Drafting Symbols Labor Must Solve Difficulties, Industry and. Charles O. Herb	Feb. Jan. Nov. July June Nov. Dec.	225 149 156 280 266 213 222	Lead Checker for Large Helical Gears, Michigan 'Sine-Line' Lead Measuring Instrument, Universal Thread Leader Pins and Bushings in Die Sets, Assembling, Jose Sobkowiak Leader Welding & Mig. Co.: Automatic Welding Machine "Lead-Matic" Tapping Attachment Lebanon Steel Foundry: Unique Steel Casting Movie LeBlond Machine Tool Co., R. K.: New 40-juch Roll-contouring Lathe LeBlond, Richard K., Obituary of Ledeen Mig. Co.: All-hydraulic Pumps and Power Units Ledford, R. F., Personal of Lehtigh Foundries, Inc.:	Dec. Apr. Mar. Nov. July July July Jan. Apr. Nov.	210 208 204 242 243 268 210 260 233
Karr, Henry, Personal of Kashman, Henry, Personal of Kashman, Henry, Personal of Kasper, L.: Increasing the Movement of an Oscillating Shaft Chain-driven Intermittent Rotary Movement Fixed Stroke Converted into Variable Stroke Modified Eccentric Provides Adjustable Die Stroke Linear Movement Reduced by Differential Chain Drive Mechanism Kaufmann, Dwight W., Personal of Kearney & Trecker Corporation: Ground Broken for New Plant Kearns "Optimetric" Jig Mill Kearns "Optimetric" Jig Mill Kearns to Cleaning Aluminum and Magnesium Automatic Steam Cleaner	Apr. June Oct. Dec. Mar. Apr. May Feb. Dec. May May	250 254 221 203 197 206 207 252 258 219	L & S Industries: Pluid Drive Coupling for Small Motors Labelon Tape Co., Inc.: Adhesive Tape with Drafting Symbols Labor Must Solve Difficulties, Industry and. Charles O. Herb	Feb. Jan. Nov. July June Nov. Dec.	225 149 156 280 266 213 222	Lead Checker for Large Helical Gears, Michigan 'Sine-Line' Lead Measuring Instrument, Universal Thread Leader Pins and Bushings in Die Sets, Assembling, Jose Sobkowiak Leader Welding & Mfg. Co.: Automatic Welding Machine "Lead-Matic" Tapping Attachment Lebanon Steel Foundry: Unique Steel Casting Movie LeBlond Machine Tool Co., R. K.: New 40-inch Roll-contouring Lathe LeBlond Richard K., Obituary of Ledeen Mfg. Co.: All-hydraulic Pumps and Power Units Ledford, R. F., Personal of Lehigh Foundries, Inc.; "Pro-Tracer" Duplicating Attachment	Dec. Apr. Mar. Nov. July July July Jan. Apr. Nov. Dec.	210 208 204 242 243 268 210 260 233 246
Karr, Henry, Personal of Kashman, Henry, Personal of Kasher, L.: Increasing the Movement of an Oscillating Shaft Chain-driven Intermittent Rotary Movement Fixed Stroke Converted into Variable Stroke Modified Eccentric Provides Adjustable Die Stroke Linear Movement Reduced by Differential Chain Drive Mechanism Kaufmann, Dwight W., Personal of Kearney & Trecker Corporation: Ground Broken for New Plant Kearns "Optimetric" Jig Mill Kelite Products, Inc.: Detergent for Cleaning Aluminum and Magnesium Automatic Steam Cleaner Universal Cleaning Spray for Hand	Apr. June Oct. Dec. Mar. Apr. May Feb. Dec. May	250 254 221 203 197 206 207 252 258 219	L & S Industries: Fluid Drive Coupling for Small Motors Labelon Tape Co., Inc.: Adhesive Tape with Drafting Symbols Labor Must Solve Difficulties, Industry and. Charles O. Herb	Feb. Jan. Nov. July June Nov. Dec. Sept. Aug.	225 149 156 280 266 213 222 173 214	Lead Checker for Large Helical Gears, Michigan 'Sine-Line' Lead Measuring Instrument, Universal Thread Leader Pins and Bushings in Die Sets, Assembling, Jose Sobkowiak Leader Welding & Mig. Co.: Automatic Welding Machine "Lead-Matic" Tapping Attachment Lebanon Steel Foundry: Unique Steel Casting Movie LeBlond Machine Tool Co., R. K.: New 40-juch Roll-contouring Lathe LeBlond, Richard K., Obituary of Ledeen Mig. Co.: All-hydraulic Pumps and Power Units Ledford, R. F., Personal of Lehigh Foundries, Inc.: "Pro-Tracer" Duplicating Attachment for Engine Lathes	Dec. Apr. Mar. Nov. July July July Jan. Apr. Nov. Dec.	210 208 204 242 243 268 210 260 233 246
Karr, Henry, Personal of Kashman, Henry, Personal of Kashman, Henry, Personal of Kasper, L.: Increasing the Movement of an Oscillating Shaft Chain-driven Intermittent Rotary Movement Fixed Stroke Converted into Variable Stroke Modified Eccentric Provides Adjustable Die Stroke Linear Movement Reduced by Differential Chain Drive Mechanism Kaufman, Dwight W., Personal of Kearney & Trecker Corporation: Ground Broken for New Plant Kearns "Optimetric" Jig Mill Kearns "Optimetric" Jig Mill Keathe Products, Inc.: Detergent for Cleaning Aluminum and Magnesium Automatic Steam Cleaner Universal Cleaning Spray for Hand Spray Gun Application	Apr. June Oct. Dec. Mar. Apr. May Feb. Dec. May Mar. July Aug. Aug.	250 254 221 203 197 206 207 252 258 219	L & S Industries: Pluid Drive Coupling for Small Motors Labelon Tape Co., Inc.: Adhesive Tape with Drafting Symbols Labor Must Solve Difficulties, Industry and. Charles O. Herb	Feb. Jan. Nov. July June Nov. Dec.	225 149 156 280 266 213 222 173 214	Lead Checker for Large Helical Gears, Michigan 'Sine-Line' Lead Measuring Instrument, Universal Thread Leader Pins and Bushings in Die Sets, Assembling, Jose Sobkowiak Leader Welding & Mig. Co.: Automatic Welding Machine "Lead-Matic" Tapping Attachment "Lebanon Steel Foundry: Unique Steel Casting Movie LeBlond Machine Tool Co., R. K.: New 40-juch Roll-contouring Lathe LeBlond, Richard K., Obituary of Ledeen Mig. Co.: All'hydraulic Pumps and Power Units Ledford, R. F., Personal of Lehigh Foundries, Inc.: "Pro-Tracer" Duplicating Attachment for Engine Lathes Lemann Machine Co.:	Dec. Apr. Mar. Nov. July July July Jan. Apr. Nov. Dec.	210 208 204 242 243 268 210 260 233 246
Karr, Henry, Personal of Kashmen, Henry, Personal of Kashmen, Henry, Personal of Kasper, L.: Increasing the Movement of an Oscillating Shaft Chain-driven Intermittent Rotary Movement Fixed Stroke Converted into Variable Stroke Modified Eccentric Provides Adjustable Die Stroke Linear Movement Reduced by Differential Chain Drive Mechanism Kaufmann, Dwight W., Personal of Kearney & Trecker Corporation: Ground Broken for New Plant Kearns "Optimetric" Jig Mill Keitte Products, Inc.: Detergent for Cleaning Aluminum and Magnesium Automatic Steam Cleaner Universal Cleaning Spray for Hand Spray Gun Application Keller Hacksaw with Increased Capacity	Apr. June Oct. Dec. Mar. Apr. May Feb. Dec. May Mar. July Aug. Aug.	250 254 221 203 197 206 207 252 258 219	L & S Industries: Fluid Drive Coupling for Small Motors Labelon Tape Co., Inc.: Adhesive Tape with Drafting Symbols Labor Must Solve Difficulties, Industry and. Charles O. Herb	Feb. Jan. Nov. July June Nov. Dec. Sept. Aug.	225 149 156 280 266 213 222 173 214	Lead Checker for Large Helical Gears, Michigan 'Sine-Line' Lead Measuring Instrument, Universal Thread Leader Pins and Bushings in Die Sets, Assembling, Jose Sobkowiak Leader Welding & Mig. Co.: Automatic Welding Machine "Lead-Matic" Tapping Attachment Lebanon Steel Foundry: Unique Steel Casting Movie LeBlond Machine Tool Co., R. K.: New 40-inch Roll-contouring Lathe LeBlond, Richard K., Obituary of Ledeen Mig. Co.: All-hydraulic Pumps and Power Units Ledford, R. F., Personal of Ledingh Foundries, Inc.: "Pro-Tracer" Duplicating Attachment for Engine Lathes Lemann Machine Co.: "Hydratrol" Lathe for Machining Jet- "Hydratrol" Lathe for Machining Jet-	Dec. Apr. Mar. Nov. July July July Jan. Apr. Nov. Dec. July	210 208 204 242 243 268 210 260 233 246
Karr, Henry, Personal of Kashman, Henry, Personal of Kashman, Henry, Personal of Kasper, L.: Increasing the Movement of an Oscillating Shaft Chain-driven Intermittent Rotary Movement Fixed Stroke Converted into Variable Stroke Modified Eccentric Provides Adjustable Die Stroke Linear Movement Reduced by Differential Chain Drive Mechanism Kaufmann, Dwight W., Personal of Kearney & Trecker Corporation: Ground Broken for New Plant Kearns "Optimetric" Jig Mill Kelite Products, Inc.: Detergent for Cleaning Aluminum and Magnesium Automatic Steam Cleaner Universal Cleaning Spray for Hand Spray Gun Application Kelier Hacksaw with Increased Capacity Kelier Power Hacksaw with Quicky	Apr. June Oct. Dec. Mar. Apr. May Feb. Dec. May Aug. Nov.	250 254 221 203 197 206 207 252 258 219 191 242	L & S Industries: Pluid Drive Coupling for Small Motors Labelon Tape Co., Inc.: Adhesive Tape with Drafting Symbols Labor Must Solve Difficulties, Industry and. Charles O. Herb. Laflin, Donald M.: Underarm Support Aids Milling and Boring of Large Work Laflin, Donald M., Personal of Lahr, Paul H., Personal of Lahr, Paul H., Personal of Lahr Personal of Lahr Paul H., Personal of Landing Service Foreign All Paul H., Personal of Landing Machine for Processing Aircraft Landis Machine Co.; Grinding Attachment for Landis	Feb. Jan. Nov. July June Nov. Dec. Sept. Aug. Apr.	225 149 156 280 266 213 222 173 214 190	Lead Checker for Large Helical Gears, Michigan 'Sine-Line' Lead Measuring Instrument, Universal Thread Leader Pins and Bushings in Die Sets, Assembling, Jose Sobkowiak Leader Welding & Mig. Co.: Automatic Welding Machine Lead-Matic 'Tapping Attachment Lebanon Steel Foundry: Unique Steel Casting Movie LeBlond Machine Tool Co., R. K.: New 40-juch Roli-contouring Lathe LeBlond, Richard K., Obituary of Ledeen Mig. Co.: All-hydraulic Pumps and Power Units Ledford, R. F., Personal of Lehigh Foundries, Inc.: "Pro-Tracer" Duplicating Attachment for Engine Lathes Lehmann Machine Co.: "Hydratrol" Lathe for Machining Jeterging Frames.	Dec. Apr. Mar. Nov. July July July Jan. Apr. Nov. Dec. July	210 208 204 242 243 268 210 260 233 246 343
Karr, Henry, Personal of Kashmen, Henry, Personal of Kasper, L.: Increasing the Movement of an Oscillating Shaft Chain-driven Intermittent Rotary Movement Fixed Stroke Converted into Variable Stroke Modified Eccentric Provides Adjustable Die Stroke Linear Movement Reduced by Differential Chain Drive Mechanism Kaufmann, Dwight W., Personal of Kearney & Trecker Corporation: Ground Broken for New Plant Kearns "Optimetric" Jig Mill Keilte Products, Inc.: Detergent for Cleaning Aluminum and Magnesium Automatic Steam Cleaner Universal Cleaning Spray for Hand Spray Gun Application Keiler Hacksaw with Increased Capacity Keller Power Hacksaw with Increased Capacity	Apr. June Oct. Dec. Mar. Apr. May Feb. Dec. May Mar. July Aug. Nov.	250 254 221 203 197 206 207 252 258 219 191 242 191 224	L & S Industries: Fluid Drive Coupling for Small Motors Labelon Tape Co., Inc.: Adhesive Tape with Drafting Symbols Labor Must Solve Difficulties, Industry and. Charles O. Herb. Laflin, Donald M.: Underarm Support Aids Milling and Boring of Large Work Laflin, Donald M., Personal of Lake File Engineering Corporation: Billet Splitter for Artillery Shells Presses for Cold Extruding Artillery Shells Landau Co., J.: Phosphoric Acid Organic Primer Resists Corrosion Landing gear Cylinders, Snyder Special Machine for Processing Aircraft Landis, Harvey: Press Dies Cast from Plaster Porms Landis Machine Co.: Grinding Attachment for Landis Chasers	Feb. Jan. Nov. July June Nov. Dec. Sept. Aug. Apr.	225 149 156 280 266 213 222 173 214 190	Lead Checker for Large Helical Gears, Michigan 'Sine-Line' Lead Measuring Instrument, Universal Thread Leader Pins and Bushings in Die Sets, Assembling, Jose Sobkowiak Leader Welding & Mfg. Co.: Automatic Welding Machine "Lead-Matic" Tapping Attachment Lebanon Steel Foundry: Unique Steel Casting Movie LeBlond Machine Tool Co., R. K.: New 40-inch Roll-contouring Lathe LeBlond, Richard K., Obituary of Ledeen Mfg. Co.: All-hydraulic Pumps and Power Units Ledford, R. F., Personal of Lehigh Foundries, Inc.: "Pro-Tracer" Duplicating Attachment for Engine Lathes Lehmann Machine Co.; "Hydratrol" Lathe for Machining Jet- engine Frames Leichliter, Van H., Personal of Leichliter, Van H., Personal of	Dec. Apr. Mar. Nov. July July July Jan. Apr. Nov. Dec. July	210 208 204 242 243 268 210 260 233 246 343
Karr, Henry, Personal of Kashman, Henry, Personal of Kashman, Henry, Personal of Kasper, L.: Increasing the Movement of an Oscillating Shaft Chain-driven Intermittent Rotary Movement Fixed Stroke Converted into Variable Stroke Modified Eccentric Provides Adjustable Die Stroke Linear Movement Reduced by Differential Chain Drive Mechanism Kaufmann, Dwight W., Personal of Kearney & Trecker Corporation: Ground Broken for New Plant Kearns "Optimetric" Jig Mill Kelite Products, Inc.: Detergent for Cleaning Aluminum and Magnesium Automatic Steam Cleaner Universal Cleaning Spray for Hand Spray Gun Application Kelier Hacksaw with Increased Capacity Kelier Power Hacksaw with Quicky	Apr. June Oct. Dec. Mar. Apr. May Feb. Dec. May Mar. July Aug. Nov.	250 254 221 203 197 206 207 252 258 219 191 242 191 224	L & S Industries: Fluid Drive Coupling for Small Motors Labelon Tape Co., Inc.: Adhesive Tape with Drafting Symbols Labor Must Solve Difficulties, Industry and. Charles O. Herb	Feb. Jan. Nov. July June Nov. Dec. Sept. Aug. Apr.	225 149 156 280 266 213 222 173 214 190	Lead Checker for Large Helical Gears, Michigan 'Sine-Line' Lead Measuring Instrument, Universal Thread Leader Pins and Bushings in Die Sets, Assembling, Jose Sobkowiak Leader Welding & Mig. Co.: Automatic Welding Machine "Lead-Matic" Tapping Attachment "Lebanon Steel Foundry: Unique Steel Casting Movie Leblond Machine Tool Co., R. K.: New 40-juch Roll-contouring Lathe Leblond, Richard K., Obituary of Ledeen Mig. Co.: All-hydraulic Pumps and Power Units Ledford, R. F., Personal of Lehigh Foundries, Inc.: "Pro-Tracer" Duplicating Attachment for Engine Lathes Lehmann Machine Co.; "Hydratrol" Lathe for Machining Jet- engine Frames Leichalter, Van H., Personal of Leleman Bross,, Inc.:	Dec. Apr. Mar. Nov. July July Jan. Apr. Nov. Dec. July	210 208 204 242 243 268 210 260 233 246 343
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fense Mobilization Report Defense Planning May Go on for Fifty	Dec.	145	Speed Reducer with Overload Protec- tion	Feb.	232	Pneumatic Transmitter, Miniature "Point-Chek" Gage for Inspecting Drill	Mar.	230
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Oxy-acetyline Welding, see Welding	Aug.		"Pilot Master" Valves for Pneumatic Remote Control of Master Valves I "Pilote" Automatic Hydraulic Copying			purpose Mechanical	July	234
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P-D.Q.* Quick-change Tool-holder and Adapter Set	Sept.	230	*Pilot Master* Valves for Pneumatic Remote Control of Master Valves *Pilote* Automatic Hydraulic Copying Lathe	Aug.	215	purpose Mechanical		
"P.D.Q." Quick-change Tool-holder and Adapter Set"P-30" Churchill Buffing Wheel Packard Motor Car Co.:	Sept.	230	"Pilot Master" Valves for Pneumatic Remote Control of Master Valves	Aug.	215 213	purpose Mechanicai Polishing, see also Sanding Polishing Tungsten-carbide Dies, Machine for	Apr.	222
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P.D.Q.* Quick-change Tool-holder and Adapter Set	Sept. Oct. Dec.	230 248 155 234	"Pilot Master" Valves for Pneumatic Remote Control of Master Valves	Aug. Feb. Apr. May June	215 213 218 209 234	purpose Mechanicai Polishing, see also Sanding Polishing Tungsten-carbide Dies, Machine for Polishing Wheels, see Wheels Polacoat Inc.: Weider's Helmet with Variable Shade Lens Polyplastex International Corporation,	Apr.	222

Portable High-speed Hand Tool, "Disk-	Wale	999	Press Feed Designed to "Feel" its Way Through Work, Drill	Sept.	220	Pump and Safety Ram, Air-Powered Hydraulic	Mar.	230
ette" Portable Tools, "Di-Profiler" for			Press for Splitting Steel Billets, Lake			Pump for Bench Drill Presses, Cool-		
Portage Tool Co.:	June		Erie Hydraulic	Nov.	213	ant	July	248
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er Set	Sept.	230	Press, Hamilton Strip Feed			and	July	254
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Heavy Loads	Apr.	266	Press, Hydraulic Precision Assembling	Apr.	221	Bearing Type Screw	Sept.	230
Electric Hand Drills	Nov.	227	Press of Versatile Design, Hydraulic			Pump Unit, Bantam Coolant Tank and	Feb.	231
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Porter Co., Inc., H. K.:	****	000	Using Hydraulic. H. P. Laussucq Press Program for Large Aircraft	may	1.10	Pumps and Power Units, Air-hydraulic Pumps. Leiman Pressure and Vacuum	NOV.	233
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tile and Strong	Tune	201	75,000-ton Throatless	Feb.	188	Chase	Aug.	186
"Power-Grip" Chuck, Sundstrand			Press Using Combination Cushion and			Punch Shaper for Rapid Machining of		
Power Unit for Presses, Hydraulic			Rubber Pad Process, "Hidraw" Deep-			Blanking Punches in One Set-up	Apr.	216
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Wright "Turbo-compounds," Edgar	F. 1	-	Press, Watson-Stillman Aluminum	Turne	210	Punching on Press Brakes, Production:	Oct	185
Aithois	July	210	Press with Two Rams, Elmes Hydrau-	June	210	2		
Power Unit with Special Equipment, Hydraulic	Sent	238	lic C-frame	Aug	220	Punching Unit with Positive Die Re-		
Powermatic, Inc.:	wort.	230	Presses, Cooper Weymouth Sweep			tainer, Wales Hole		
Air-powered Hydraulic Pump and			Guard for Power	Peb.	223	Purvin, Theodore V., Personal of		
Safety Ram	Mar.	230	Presses, Dake Gap Type Hydraulić	Jan.	221	Pyne, Roger S., Personal of	June	256
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Pratt & Whitney Aircraft, Division of		200	Presses, "Hydrau-Power-Pack" for	Aug.	226	Q		
United Aircraft Corporation:						#OugaPlant Air Hose		
Testing of Jet Engines Facilitated			Pressure Testing Machine for Detect- ing and Locating Leaks in Castings	Tan	220	"Qua-Flex" Air HoseQueen, John W., Personal of	June	220
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Pond Co.: Air-O-Limit Gages for Root Forms			Pressures for Blank-holders in Draw-			"Quick-Lok" Collet Vise, Arrow	May	239
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"Sealtite" Flexible Electrical Conduit with Synthetic Covering	June	246	Diamond Dust from Grinding Sheldon Safety Drill Guide	Mar.	221	ing Production	MAT.	100
Seamless Light-wall Tubing Introduced,			Shell Cores, Tungsten-carbide. Edgar		200	1	Apr.	170
Larger Sizes of	Feb.	182	Altholz	Apr.	159	Snyder, Clarence, Obituary of	May	175
Power Press Safety Guard	Oct.	258	Shell Fins, Machine for Rapid Drilling of Mortar	Nov.	224	Snyder Tool & Engineering Co.:	Mar.	240
Seeburg, George, Personal of			Shell Oil Co.:			Special Machine for Processing Air-		
Sehn, Francis J., Personal of Sensca Falls Machine Co.:	May	259	Fortified Lubricating Oil Extends In- dustrial Engine Service Life	Dec	195	craft Parts	Aug.	214
Transfer Mechanism that Speeds Up			Multiple-purpose Lithium Grease	Dec.	190	Bushing Protects Lathe Centers Dur-		
Automatic Turning	Sept,	206	with High-resistance To Breakdown	Feb.	182	ing Rough-machining	Sept.	202
Accurate Centering of Projectiles In- sures Precise Turning	Apr.	195	Shells Closed End First, Sorting and Feeding. W. M. Halliday	June	206	Assembling Leader Pins and Bush- ings in Die Sets	Nov	204
Senger, Werner L., Personal of			Shells, Manufacturing 90-MM. O. L.			Reel and Cable Used to Generate		
"Sensitorque" Drill Press Feed De- signed to "Feel" its Way Through			DuCharme	Mar.	143	Tapers on a Lathe	Dec.	206
Work	Sept.	220	Sheliback Mfg. Co.: Coolant Pump Unit	Apr.	235	Any Angle	Mar.	194
Separator, "Roto-Finish" Machine with			Sheridan Products:			Indicator for Centering Punch Mark	Feb.	199
Work and Abrasive Chip Severance Tool Industries, Inc.:	æpt.	440	Cement for Accurately Securing Bushings in Drill Jig Plate	Dec.	202	Vee Type Back-up Block Utilizes Scrap Bar Stock in Clamp	June	211
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Solder Applied with Torch or Iron,		***	Stainless-steel Melting, Use of Rare- Straightening Machine of			***
Silver-bearing			earth Elements in			
Fast-acting	Mar.	191	Irons, Black Magic Finish for Aug. 190 Strasser, Federico: Staking Machine, All-electric			
Solderless Connections, Wire-wrapping			Stamm, George W., Personal of Jan. 255 for Punching and Bia		Oct.	224
Tool for	Aug.	211	Stamping Press, High-speed Automatic Nov. 216 Constant Specific Pres Stanat Mig. Co.: Holder in Drawing Di		Jan.	200
Chemical	Sept.	172	Small Rolling Mills June 228 Punching Die Unit Desi	igned to Facili-		
Somers, Joseph, Personal of Somes, Jr., George C., Personal of	Dec.	253 262	Standard Electrical Tool Co.: tate Handling Deep Standard Electrical Tool Co.: tate Handling Deep Standard Electrical Tool Co.: Semi-automatic Stop for Semi-automatic Stop for Standard Electrical Tool Co.:		Apr.	201
Sommers, Gordon M., Personal of	Apr.	255	Machines July 241 dies	***************************************	May	206
Somua Heavy-duty Milling Machines Soniclean Metal Cleaning Process	May	185	Standard Gage Co., Inc.: Punching, Swaging, and Progressive Die		Aug.	207
Sonnet Supply Co.:	,		Standard of Living, Free Enterprise Strasser, Federico, Peri	sonal of	May	253
Special Cutter Designed to Produce Port of Correct Contour in One Op-			Results in Higher. Charles O. Herb Mar. 141 Stretch-form Press Deve Standard Pressed Steel Co.: in Aircraft Plants, Lon		June	218
eration	June	244	Steel Drawer Units Which can be As- Stretch-forming Techniq	ues Improved		
Sonnie W. C., Personal of Sorensen Center-Mikes, Inc	Oct.	273	sembled to Fit Shop or Office Space Oct. 241 to Meet Present-day De Standards, Nations Agree to Unify Var- Strieter, F. P., Personal			
Direct-reading Center Distance Ver-			ious Engineering	ead, and Tin-		
nier Calipers	Nov.	226	Stanton, Richard F.V., Personal of Jan. 250 lead Alloys		Sept,	172
Sorting and Feeding Shells Closed End First, W. M. Halliday	June	206	ing Odd-shaped Parts Mar. 230 Two Nonflammable Pai	int	June	200
Sound Analyzer	Dec.	238	Starret Co., L. S.: Strippers, Wales "Hydra Air-hardening Flat Stock for Wear- Die		Dec	224
South Bend Lathe Works: Rotary Table for Small Precision			resisting Punches and Dies Oct. 204 Stripperless Dies for Pu	nching and		
Work	Jan.	238	Vernier Height Gage Oct. 247 Blanking, Simple Desig Starter, Magnetic Motor Feb. 232 Strouse, D. R., Personal	ns of	Oct.	224
Indexing Centers Pedestal Tool Grinder			Starter, Magnetic Motor Feb. 232 Strouse, D. R., Personal Staub, Charles R.: Struthers Wells Corpora		rug.	
Production Type Drill Press	Apr.	213	Be Kind to Your Hobs		June	229
Universal Table for Drilling and Mill- ing Machines	June	234	Stauble, Wilbur C., Personal of Mar. 236 Studs to Obtain Tighter I	Pits, Portable		
Southwest Machine Works:			Steam Cleaner, Kelite Automatic July 242 Electric Heater for Pr		Jan.	240
"Bridge Grinder" Designed for Pre- cision Surfacing	Feb.	224	Graphitic Tool		Aug.	223
Spacer for Use in Fastening Sandwich			Steel Bars Now Available, Three Types Sturtevant Co., P. A.:		Tuna	933
Type Structures			of Hollow			
Special Chemicals Corporation:	Jane	200	and Extrusion of Jan, 178 Chilling Chamber for S		Dec.	213
Flux for High-temperature Brazing and Hard Soldering	May	189	Steel, Corrosion- and Heat-resistant Suction Cups for Safe Ha		June	213
Specimens for Checking Surface Finish	Apr.	228	Steel for Highly Conductive Spring Parts. Suggestions of the Practi	ical Man Can		
Speed Between Shafts Having Variable Centers, Transmitting Uniform			Copper-clad Hardenable	ducts Co.:	Aug.	101
Speed-changing Unit for Drill Press		222	ture Alloy-saving Jan. 178 "Power-Grip" Chuck .		Mar.	221
Speed-changing Units, Geared	Nov.	238	Steel Ingot Poured for Huge Press Coi- umn Feb. 205 Gearing		Feb.	183
Speed Constant, Reactor Holds Surface Speed, Maintaining Constant Surface	Jan.	202	Steel Obtained by Immersion, Jet Black Super-Cut Distributors I	nc.:		
cutting. John L. Dutcher			Finish on Iron and		Pen.	232
Speed Reducer, Eberhardt-Denver Speed Reducer, Pull Gear			Steel Oilite—A Powdered Metal "Super-Hot" Heat-resists Product That Is Ductile and Strong June 201 Paint for Metal Surface		Sept.	173
Speed Reducer "Shaft-King"	Feb.	219	Steel Plate Trimmings, Fabricating "Super Surface" Grinding	Machine,		
Speed Reducer with Overload Protec-			Finished Parts from		reu.	210
spiders, Broaching Arms on Aircraft	res.	232	bon and Sulphur in June 179 "Super Hard" Drill Size		Nov.	225
Engine	June	215	Steel, see Sheet, Stainless, High-speed, Improved Face-milling Molybdenum, Nickel, Wrought Interchangeable Carb		Jan.	236
Multiple-head Tungsten-carbide Sur-			Steel Studied, Underground Corrosion Tool Ground to Ream a		Inn	-
face Grinder			of Galvanized		Jun.	200
Cam Type Profile Milling Machine Spindle Equipped with Air Muffler, Vul-	Matr.	210	Steels Available in Larger Sizes, trating End-cutting		Feb.	238
canaire High-speed	June	244	"Desegatized" Tool		June	226
ternal	Mar.	203	Industry, Free-machining Screw May 188 Superdraulic Corporation			
Split Ballbearing Corporation: Ball Bearing for Use in Limited Space			Steels, Hardening Compound Suitable for Low-carbon		Sept.	238
Splitting Steel Billets, Lake Erie Hy-	MOV.	440	Steels, Powder-cutting Equipment for Superfinishing of Mill Ro	lls Lengthens		
draulic Press for			Stainless and Alloy		MAF.	104
Spooner, Kenneth C., Personal of Spot-facing Crankcases, Moline Special			Multi-colored Coating for Protecting ment in	**************	Oct.	278
Machine Designed for Back Spot-welding, see Welding	July	237	Steels, Robert J., Personal of June 264 Adjustable Prop or	***************************************	Sept.	230
Spotting-in Propeller Tooling with Spe-			Steelweld Shear with Long Cutting Ca- pacity			
cial Die Set			Steenburgh, K. H.: Gun		Jan.	235
Spotting of Cadmium Plate "Spray King" Simplified Metal Spray	Feb.	203	Masking Device for Projection Type Comparators			
Gun			Steere, John C., Personal of June 262 Surf-Ace Grinding Machin	ne, Bridgeport	July	247
Springer, William O., Personal of Springfield Machine Tool Co.:	Nov.	246	"Stereomicroscope" Bausch & Lomb Surface Plate, Huge One- Industrial Oct. 253 Surface Plate, Portable V	piece	June Apr.	
Contouring Attachment for Springfield			Sterling Electric Motors Inc.: Surface Plate, "Ultra-Plate"	at" Portable	June	242
Lathes Dual-spindle Vertical Grinding Ma-	Oct.	235	Geared Electric Drive			
chine	Nov.	213	Cutter Grinding Machine Jan. 224 Sutherland, James H., Pe	rsonal of	Oct.	274
Sprocket Wheels with Taper Lock Bushings, Link-Belt Roller Chain	Aug	231	Stevens Inc., Frederic B.: Swanson Tool & Machine Spotting of Cadmium Plate Feb. 203 Inspection Unit for Che			
Sprockets, Dodge "Taper-Lock"			Stewart-Warner Corporation: Parts	****************	Apr.	227
Stabilizer for Horizontal Milling Ma- chine, Arbor	Jan.	203	Oil-mist Lubricator with Warning Turret Indexing Units . Switch	***************	Aug.	218
Stage for Optical Comparators, Coor-			Stickell, G. M., Personal of May 264 Sweeney, Robert S., Pers	onal of	Dec.	248
Stage for Optical Projectors, Coordinate	Apr.	227	Stolarz, John, Personal of Apr. 256 Swift, Carl E., Personal	of	Dec. Feb.	246
Measuring	June	246	Stone Machinery Co.: Cut-off Machine	al of	June	254
Stahl, E. P.: Lubrication of Anti-friction Bearings	Sept,	160	Heavy-duty Cut-off Machine July 236 Switch Assembly Units, h	dicro	Feb.	237
Stainless? Having Trouble with 430			Stop for Blanking Dies, Semi-automatic. Switch, Small Toggle		Sept.	229
Stainless Steel and Malleable Iron,	Dec.	183	Federico Strasser May 206 Switches, Micro Toggle .	**************		
Blackening Compound for	Aug.	191	Stop-nuts, Miniature Elastic Dec. 238 Force, Micro	*******	Jan.	236
Stainless-steel Filter Material with High Tensile Strength	Ang	191	Storage Units with Adjustable Shelves, Synthetic Rubber, see Ru	bber		
Stainless Steel in Powdered Form Now			Straightening and Cutting Machine, ciency, Methods	man, and		
Being Produced	Jan.	179	Shuster Automatic Wire Aug. 224			

T			Milling	Inn	180	Tilden Tool Co.:	Oct.	200
			Quick-action Threaded Clamps for			Core Drill with Tungsten-carbide		
			Proof-testing Cables	Feb.	171	Cutters	Sept.	228
Taber Instrument Corporation:		1	Suction Cups for Safe Handling of	*		"Tilt-Head" Bed Turret, Newton	Apr.	229
Abrasion Tester for Cylindrical Parts	Sept.	216	Sheet-metal Parts "Temp-Check" for Work and Gage	June	213	Tilting Device Permits Radius Grinding		
Table, Air-powered Electrically Con- trolled Rotary Index Work-feed	Mow	900	Temperatures	Dec.	234	with Flat Cup-wheel, Work Leif Weywadt	Nov	201
Table for Drilling and Milling Machines,		200	Temperatures, "Temp Check" for Work			Timken Roller Bearing Co., The:		
Universal		234	and Gage	Dec.	234	Graphitic Tool Steel Available in Hol-		
Table for Small Precision Work, Rotary	Jan.	238	Tempering and Controlled Oxidation,			low Bar Form		
Table, Kenco High-precision Rotary		245	Ipsen Furnace Developed to Combine	Out	220	Dodge-Timken All-steel Pillow Blocks	Sept.	238
Table with Access Door, Pangborn Roto-	Toma	004	Bright Tempering Furnace, Flattening and	Feb.	218	Diamond Dust Reclaimed from Grind- ing Sludge	Nov	998
blast	June	463	Test Chambers, Multi-range	Aug.	223	Micro-inch Inspection in the Gage La-	MUY,	200
Precision Tilting Rotary	Feb.	217	Test Set with Magnetic Base, Geneva			boratory	June	180
Tables, Allen Improved Dial Feed	May	242	Dial	Sept.	238	Tin, Lead, and Tin-lead Alloys, Alka-		
Tacony File & Hardware Co.:			Tester for Determining Hardness of Hot	**		line Stripper Removes	Sept.	172
File Developed for Precision Work	Feb.	237	Metals Tester for Small Precision Gears	Ane	228	Titan Tool Co.:		
Taft-Peirce Mfg. Co.:		800	Tester for Thin Sheet Steel, Improved	Apr.	220	Tool for Driving Threaded Inserts in Aircraft Parts	Mar	222
"CompAIRator" Computing Air Gage Air Gage for Jet Blades			Hardness	Nov.	225		-	***
"Electrolized" Standard and Special	aune		Tester, Gits Vacuum	Oct.	243	Titanium and Its Alloys being Produced,	****	100
Gages	July	253	Tester, Production Line Vacuum	Dec.	217	Additional Forms of Titanium at North American, Working.	May	100
Granite Surface Plates	Aug.	228	Testing and Washing Cylinder Heads,	Man	207	Gordon A. Fairbairn	July	182
Tank Housings, Cross Special Machine	*	***	Machine for Testing Cables, Quick-action Threaded	Mar.	201	Titanium for Castings, Using		
for Drilling and Reaming	Jan.	215	Clamps for Proof-	Feb.	171	Titanium in Jet Engines Increasing, Use		
Tank Idier Arms, Cross Transfer-matic Produces		214	Testing Chamber, Webber High-low			of	Jan.	260
Tanks, Northrop Plant Producing Range	2101.		Temperature Bench Type	Aug.	228	Titanium Production and Application, Advance in	Pak	205
Finders for	May	194	Testing, Douglas Detects Flaws by Un-		***	Titanium Requires Special Techniques,	reb.	200
Tanner, Hubert D., Personal of	Aug.	252	derwater	Oct.	212	Forging of	June	202
Tantalum Carbide, see also Carbide			Testing Electric Tools and Cords, De- vice for Safety	Ann	236	T-nuts in Wide Range of Sizes		
Tap Designed to Thread and Chamfer	Y	226	Testing Fixture, Torque	June	233	Tobias, Peter S.:		
Pipe in one Operation, Landis Taps and Hand Reamers, Lathe Tail-	June	200	Testing Joints on Oil-well Drill Pipe,			Cost-cutting Dies		
stock Adapter for Solid	Oct.	226	Torsion Machine for	Jan,	223	Toggle Switch, Precision		258
Taps, Improved "Hy-Pro" Machine			Testing Laboratory, Mobile Gage	Feb.	260	Tolerances for Mass Production, Dimen- sions and, Earle Buckingham:		
Screw	Jan.	219	Testing Machine, Baldwin Compression	Nov.	216	1	May	163
Tape Provides Positive Holding at High			Testing Machine, Baldwin Emery Testing Machine for Cylindrical Parts,	Dec.	220	2	June	172
Temperatures, Thin Masking	June	200	Abrasion	Sept.	216	3		
Tape with Drafting Symbols, Labelon	Pah	995	Testing Machine for Detecting and Lo-	ocpt.		Tool and Die Manufacturers, Directory	June	205
Adhesive	reu.	250	cating Leaks in Castings	Jan.	220	Tool Bits and Cut-off Blades, High-		
to Generate	Dec.	206	Testing Machines, Baldwin Universal	Mar.	209	speed	Apr.	219
Tapers, Useful Shop Gage for Accurate			Testing Machines, Losenhausen Fatigue-	July	244	Tool Co., Inc., R. B.: Precision Boring and Facing Tools	Jan	236
Checking of. W. M. Halliday	Nov.	203	Testing of Jet Engines Facilitated by	Tules	269	Tool, "Diskette" Portable High-speed		200
Tapered Extrusions Effect Design and			Television	July	200	Hand	Fah	999
Production Economies *Taper-Lock* Dodge Variable-speed	NOV.	200	Type Machine for Pressure	Nov.	212	Tool for Installing and Adjusting V-link	2 00,	
Drive	Oct.	242	Testing, see also Gaging, Inspection, etc.			Belting	May	225
"Taper-Lock" Sprockets, Dodge	Apr.	326	Testing Tool Life with Radioactive Cut-			Tool-holder and Adapter Set, Quick-		
"Tap-Go" Spring Center and "Zero"			ting Tools	Feb.	203	change	Sept.	230
Edge Locator	Aug.	232	Testing, Unit for Sand and Dust Environ-			Tool-holder and Boring Adapters for	Mon	-
Tappet Screws, Mechanism for Checking			mental	June	241	Lathes	NOV.	200
the Torque of	Sept.	199	Thaler, Hermann, Obituary of	Dec.	254	V-jaw	Feb.	226
Papping and Drilling Machine, Auto- matic	Aug	910	Thermo-couples control Jet-engine Fuel	Pah	100	Tool-holder for Turret Lathes and		
Tapping and Drilling Machine, *Ettco-	rug.	410	Thermoplastic Sheets, Vacuum Forming	reu.	100	Screw Machines, Stub Taper	Sept.	240
Zmrick*	Oct.	239	Machines for :	June	221	Tool-holder, Wesson "Huski-Cut" Tool-holders, Bakewell Master Tool-	Dec.	234
Fapping Attachment, "Lead-Matic"	July	243	Thiess, Wilbur, Personal of	June	254	posts and	Tuna	220
Tapping Attachment, Lead-screw			"Thinwall Nylined" Bearings	Oct.	247	Tool, Portable, see Portable	June	230
Tapping Chuck with Finger-tip Control	Sept.	240	Thomas, David A., Personal of	Nov.	254	Tool Service;		
Tapping Cylinder Blocks, Four-way Transfer Machine for Drilling and	May	991	Thomas, John H., Personal of	Oct,	208	Oil-jet Center for Lathes and Grinders	July	258
Tapping, Fundamentals of Production.	many		Anti-spatter Compound Reduces Weld-			Tool Setter, "Micro Pin"	Feb.	220
R. H. Cowan			ing Clean-up Time	Aug.	190	Tool Steel Available in Larger Sizes,		
1			Thompson & Son Co., Henry G.:	-		"Desegatized"	Oct.	204
3			"Milford Rezistor" Band-saw Blades			Obtaining Fine Finish on Production	Oct	246
Tapping Head, Simplex Automatic			Thompson, John D., Personal of	June	266	Tools, Standard Line of "Illinite" Cut-	000	
Tapping, Lead-screw Multiple-head Tapping Machine, "Burgmaster" Drill-	June	200	Thomson Industries, Inc.: Heavy-duty Linear Ball Bearing	Sent	228	ting	Feb.	212
ing and	July	253	"Thinwall Nylined" Bearings			Tooling Pays Dividends in Machining		
Tapping Machine for Jet-engine Hous-			Thread and Worm Cutting Attachment			Valve Castings, Carbide. Thomas Cun-		
ings, Five-way Drilling and	Dec.	214	Thread Generator, Cornelis				Aug.	173
l'apping Machine, Improved "Burg-			Thread Grinder, Sheffield Small Size			Toolpost with Interchangeable Holders,		1
master" Drilling and	Mar.	217	Precision	Jan.	216	Toolposts and Tool-holders, Bakewell	Apr.	225
cant for Blind-hole	Apr	188	Head, Hanson-Whitney	May	228	Master	Tuna	230
Tapping Tool, Special Landis Boring	repr.	100	Thread Rolling Attachment, Reed			Topper Equipment Co.:	2 mile	200
and	Mar.	228	Threads, Form-grinding of Worm	Dec.	174	"Circosonic" Degreaser for Metal		
Papping Transmission Cases, Zagar			Threads on Rocket Parts without Chang-			Parts	Mar.	210
Automatic Machine for Drilling and	Nov.	212	ing Cycle, Rolling	Feb.	194	Torch Equipment, Torit Acetylene	Aug.	240
Faylor Dynamometer & Machine Co.: Milling Attachment for Taylor Balanc-			Threaded Inserts in Aircraft Parts,		200	Torch for Removing Riser Pads from		
ing Machines	Feb.	221	Tool for Driving	Mar.	202	Castings Torch, Heavy-duty Heliarc Welding	Mar.	247
Paylor-Hobson 200- Contour Projector	200.		Threading Machine, "Landmaco" Heavy-	Jan.	202	Torch, Heliarc Welding	Nov	234
	Dec.	220		Aug.	214	Torch, Linde "Heliarc"	Jan.	235
Faylor, Irving R., Personal of	Nov.	254	Threading Machine, Portable Pipe, Bolt,	11/1		"Torch-O-Matic" Automatic Acetylene-		
Paylor, William W., Personal of	June	262	and Conduit	Sept.	228	air Gas Torch	Sept,	240
Council for	Oct	909	Threading Unit, Murchey High-produc-		-	Torit Mig. Co.:		
Council for	Oct.	240	Thriftmaster Products Cornoration	Apr.	219	Diamond Dust Salvaging Units	Oct.	220
relescopes for Precision Alignment,	seng.	240	Thriftmaster Products Corporation: Angular Drilling Head	Nov	225	Acetylene Torch Equipment	Aug	240
Improved	Nov.	233	Throatiess Press Co.:			"Tork-hammer" Electric Impact Wrench		
Television, Testing of Jet Engines Faci-			Unique Design Makes Possible 75,000-			for Nuts and Bolts	Mar.	227
litated by	July	268	Ton Throatless Press	Feb.	188	Torque of Tappet Screws, Mechanism		
Fellurium Copper Alloy Exhibits Free	Bank	170	"Thy-mo-trol" Drive, General Electric		-	for Checking the	Sept.	199
Machinability Temco Aircraft Corporation:	sept,	113	Simplified	Apr.	235	Torque-testing Fixture Torsion Machine for Testing Joints on	June	233
Air-operated Screwdrivers Save Time			Selecting and Applying Lubricant to			Oil-well Drill Pipe	Ian	233
	Sept.	179	Bearings:			Toth, Sigmund, Personal of	Dec.	246
Hinged Jigs and Hand Router Speed			2	Nov.	184	"Touch Control" for Multipress, Deni-		
Trimming Operations	Nov	260		Inn	106	800	Non	990

Town, H. C.:			Tungsten Carbide, Automatic Hard-			V		
Pneumatic Systems in Machine Design and Control	Jan.	161	facing of	Dec.	196			
Townsend, A. Francis, Personal of			plates with	Oct.	227	WA G David Co. Division of Probert		
Tracer Designed for Precise Shape- cutting, Oxweld Automatic	Aug.	230	Tungsten-carbide Shell Cores. Edgar	Apr.	159	V & O Press Co., Division of Emhart Mfg. Co.:		-
Tracer for Measuring Surface Rough-			Tuplin, W. A.: Form-grinding of Worm Threads			Punch Press Feeder Vacuum Printing Frame with Traveling	Nov.	233
ness, Profilometer Tracing and Milling Machine, Hydro-			Turbine Blades and Axle Housings,			Light, Bruning	July	253
Microtel Vertical Tracing Attachment, Jones & Lamson	Mar.	213	Gardner Double-spindle Machines Equipped for Grinding	Jan.	212	Vacuum Tester, Gits	Oct. Dec.	243
Turret Lathe	Feb.	208	Turbine Wheels, Curtiss Wright Power			Valvair Corporation:		
Tractor Engine Plant, Machining Tech- niques in a New	June	163	*Turbo-compounds, Power Recovery	July	210	Solenoid Pilot Valve	Apr.	240
Tractor Forgings Joined by Welding.			Wheels, for Curtiss-Wright. Edgar	Tester	210	Valve and Pressure Gage, Reducing		
Stephan Chmielewski Tracy, Gordon S.:	Sept.	190	Althois Turbo-jet Engines, Boeing Produces	July	210	Regulating	NOV.	220
Forging of Titanium Requires Special	*	***	Small	Nov.	149	Dividends in Machining. Thomas Cun-	Ann	172
Trade, see also Export, Market, For-	June	202	Turbo-jet Engines Require Modern Ma- chine Tools. E. W. Bartle	July	154	ningham	Apr.	228
eign, Industry			Turchan Follower Machine Co.: Vertical Slide Hydraulic Duplicating			Valve Designed to Make Repeat Strokes of Press Impossible		
Training, see also Education, School, Apprentices, Vocation			Attachment	Dec.	221	Valve for Air Line, Control	Apr.	240
Transfer Machine for Drilling and Tap- ping Cylinder Blocks, Four-way	May	221	Turner Bros., Inc.: Machine for Testing and Washing			Valve for High-pressure Line, Hydrau- lic Control	Jan.	236
Transfer Machine for Vee Type Engine	,		Cylinder Heads			Valve Guides, Colonial Transfer Press		
Blocks, Greenlee	Nov.	221	Hydraulic Precision Assembling Press Automatic Drilling, Assembling, and	Apr.	221	Built to Insert and Automatically Gage Valve, Hannifin Pressure-operated	NOT.	211
Transfer Machine, Natco "Holeway" "Transfer-matic" for Machining Cylin-	Apr.	220	Crimping Machine	May	227	Four-way	Sept.	. 229
der Blocks	Apr.	226	Turning, Accurate Centering of Projectiles Insures Precise	Apr.	195	Valve, Hydraulic Multi-range Flow Control	Apr.	230
"Transfer-matic" for Machining Trac- tor Cylinder Blocks	Mar.	207	Turning and Boring Machine for Jet-			Valve, Rivett Pilot Air	Dec.	238
"Transfer-matic" for Processing Giant			engine Parts, Motch & Merryweather Vertical	July	230	Valve, Ross Air Control	Jan.	238
Truck Axie Housings Cross Transfer-matic Produces Tank Idler	Dec.	219	Turning and Facing Tool, Carbide Turning Attachment for Turret Lathes,	Sept.	226	Valves for Pneumatic Remote Control of Master Valves, Pilot		219
Arms, Cross	Nov.	214	Dow Taper-	July	242	Valves, High-pressure Precision Con-		
Transfer Mechanism that Speeds Up Automatic Turning	Sept.	206	Turning Machine, Karge Turning Research at Jones & Lamson,	Feb.	219	Valves, Mead Air Cylinders and	Apr.	235
Transfer of Parts Between Supply and			High-speed	July	221	Vanadium-Alloys Steel Co.:		
Discharge Chutes, Crank Principle Controls	Jan.	201	Turning Tool Designed for Heavy Cuts Turnomat Co., Inc.:	Sept,	224	Stainless Steel in Powdered Form Now Being Produced	Inn	179
Transformer, G-E Redesigned Welding Translating Screw, Disconnecting De-			Karge Turning Machine	Feb.	219	Van Buskirk, H. J., Personal of	Feb.	252
vice for Use with a	Dec.	205	Turret Lathe for Machining Instrument Parts, Sensitive	Oct.	246	Van Norman Co.: Cylindrical Grinder for Production		
Transmission Mechanism for Variable Operating Conditions	Fah	200	Turret Lathe, Ram Type			Grinding of Small Parts	Feb.	216
Transmission Production, New Grind-			Turret Lathe Tracing Attachment, Jones & Lamson	Feb.	208	Frederick Van Norman Honored on Ninetleth Birthday	Feb.	254
ing Fixtures Increase Tank Transmissions, Instrument Makers	Jan.	190	Turret Lathe with Pre-selector and			"Diversimatic" Centeriess Grinding		
Turn Talents to Helicopter	Mar.	167	Electric-hydraulic Control Turret Lathes, Schiess Single-column	Oct.	236	Machine Van Note, Richard S., Personal of	June	256
Transmitter, Miniature Pneumatic Travis, Judson C., Personal of			Vertical	Feb.	215	Van Riper, Charles R., Personal of	July	274
Trebel Dynamic Balancing Machine			Turret, Newton "Tilt-Head" Bed Tuthill, Richard M., Personal of			"Vap-Air Exhaust" for Collecting Diamond Dust from Grinding	Mar	. 221
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